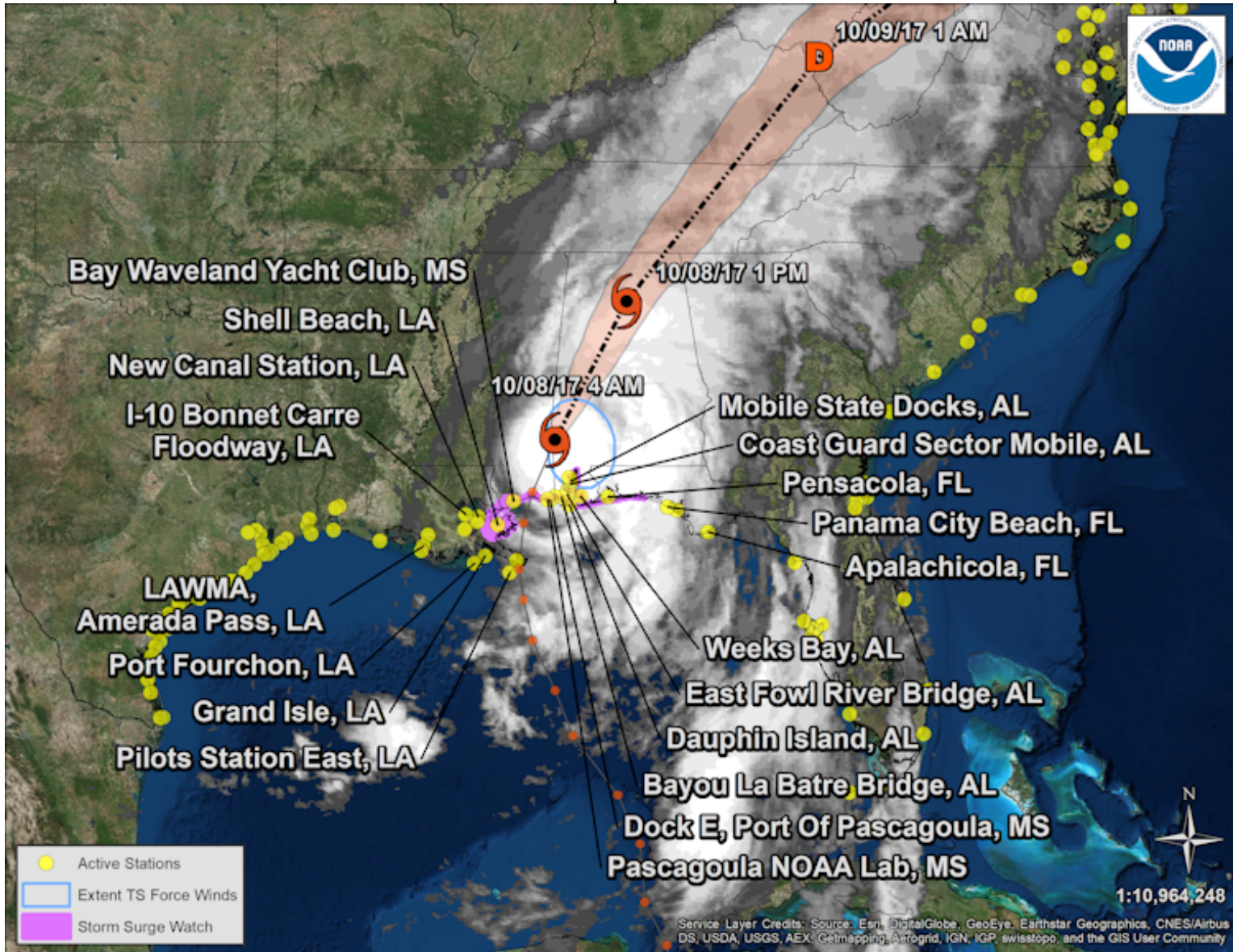




Tropical Storm NATE QuickLook
Posted: 05:00 CDT 10/08/2017

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 10/08/2017 05:00 CDT, water levels along the Gulf Coast from Amerada Pass, LA to Apalachicola, FL have generally started to fall but remain elevated. Water levels from Shell Beach, LA to Apalachicola, FL including within Mobile Bay range between 2.2 and 5.6 feet above normal tide levels with the highest water levels observed at Coast Guard Sector Mobile, AL. Water levels within Lake Ponchartrain and along far southeastern Louisiana range from 2.0 to 2.8 feet above tidal predictions. West of where Nate made initial landfall near the mouth of the Mississippi

River, water levels range from 1.3 to 1.7 feet above tidal predictions.

Winds are declining across the region and generally range from 10 to 20 knots with slightly higher gusts. Barometric pressure has started to rebound across the region.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: AC

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

Tropical Storm Nate Advisory Number 16

NWS National Hurricane Center Miami FL

400 AM CDT Sun Oct 08 2017

...NATE MOVING FARTHER INLAND OVER MISSISSIPPI AND ALABAMA...

...RAPID WEAKENING ANTICIPATED...

SUMMARY OF 400 AM CDT...0900 UTC...INFORMATION

LOCATION...31.5N 88.4W

ABOUT 80 MI...130 KM NNE OF BILOXI MISSISSIPPI

ABOUT 135 MI...215 KM WSW OF MONTGOMERY ALABAMA

MAXIMUM SUSTAINED WINDS...70 MPH...110 KM/H

PRESENT MOVEMENT...NNE OR 25 DEGREES AT 23 MPH...37 KM/H

MINIMUM CENTRAL PRESSURE...986 MB...29.12 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The Hurricane Warning for Mouth of the Pearl River to the Alabama/Florida border has been discontinued.

The Tropical Storm Warning west of the Mouth of the Pearl River, including Metropolitan New Orleans, and Lakes Pontchartrain and Maurepas has been discontinued.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Storm Surge Warning is in effect for...

* North of Pointe a la Hache to the Okaloosa/Walton County Line Florida

A Tropical Storm Warning is in effect for...

* Mouth of Pearl River eastward to Indian Pass Florida

A Storm Surge Warning means there is a danger of life-threatening inundation, from rising water moving inland from the coastline in the indicated locations. For a depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at hurricanes.gov. This is a life-threatening situation. Persons located within these areas should take all necessary actions to protect life and property from rising water and the potential for other dangerous conditions.

For storm information specific to your area, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office.

DISCUSSION AND 48-HOUR OUTLOOK

At 400 AM CDT (0900 UTC), the center of Tropical Storm Nate was located near latitude 31.5 North, longitude 88.4 West. Nate is moving toward the north-northeast near 23 mph (37 km/h). A turn toward the northeast with an increase in forward speed is expected during the next couple of days. On the forecast track, Nate's center will continue to move inland across the Deep South, Tennessee Valley, and central Appalachian Mountains through Monday.

Maximum sustained winds are near 70 mph (110 km/h) with higher gusts. Nate is expected to continue to quickly weaken as it moves farther inland. It should degenerate into a remnant low late Monday.

Tropical-storm-force winds extend outward up to 90 miles (150 km) from the center. Mobile airport recently reported a wind gust of 54 mph (87 km/h).

The estimated minimum central pressure is 986 mb (29.12 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions are expected to continue in the tropical storm warning area for the next several hours.

STORM SURGE: The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water is expected to reach the following heights above ground if the peak surge occurs at the time of high tide...

Mouth of the Pearl River to the Mississippi/Alabama border, including Mobile Bay...5 to 8 ft

North of Pointe a la Hache to the mouth of the Pearl River...4 to 6 ft

Alabama/Florida border to the Okaloosa/Walton County Line...3 to 5 ft

Morgan City, Louisiana to Pointe a la Hache...1 to 3 ft

Okaloosa/Walton County Line to Indian Pass, Florida...2 to 3 ft

Indian Pass to Crystal River, Florida...1 to 3 ft

The deepest water will occur along the immediate coast near and to the east of the landfall location, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

RAINFALL: Nate is expected to produce the following rain accumulations through Monday:

East of the Mississippi River from the central Gulf Coast into the Deep South, eastern Tennessee Valley, and southern Appalachians: 3 to 6 inches, max 10 inches.

Across the Ohio Valley into the central Appalachians: 2 to 5 inches, max 7 inches.

TORNADOES: Isolated tornadoes are possible today, mainly from the Florida Panhandle and eastern Alabama across western and northern Georgia.

SURF: Swells generated by Nate will affect land areas around the Gulf of Mexico through this evening. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

Next intermediate advisory at 700 AM CDT.

Next complete advisory at 1000 AM CDT.

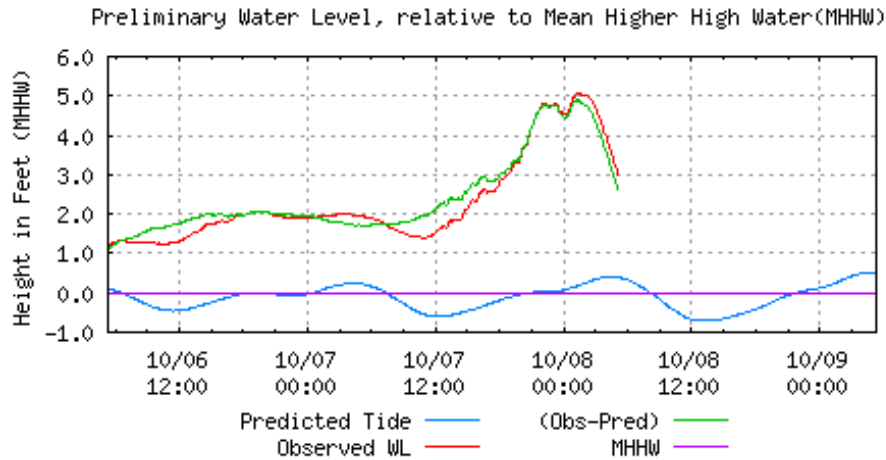
Forecaster Avila

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Shell Beach - Water Level](#), [Shell Beach - Winds](#), [Shell Beach - Barometric](#), [Bay Waveland Yacht Club - Water Level](#), [Bay Waveland Yacht Club - Winds](#), [Pascagoula NOAA Lab - Water Level](#), [Dock E, Port of Pascagoula - Water Level](#), [Bayou La Batre Bridge - Water Level](#), [Dauphin Island - Water Level](#), [Dauphin Island - Winds](#), [Dauphin Island - Barometric](#), [East Fowl River Bridge - Water Level](#), [Coast Guard Sector Mobile - Water Level](#), [Coast Guard Sector Mobile - Winds](#), [Mobile State Docks - Water Level](#), [Weeks Bay, Mobile Bay - Water Level](#),

Pensacola - Water Level, Pensacola - Barometric, Panama City Beach - Water Level, Panama City Beach - Winds, Apalachicola - Water Level, Apalachicola - Winds, New Canal Station - Water Level, New Canal Station - Winds, I-10 Bonnet Carre Floodway - Water Level, Pilots Station East, SW Pass - Water Level, Pilots Station East, SW Pass - Winds, Pilots Station East, SW Pass - Barometric, Grand Isle - Water Level, Grand Isle - Winds, Port Fourchon, Belle Pass - Water Level, LAWMA, Amerada Pass - Water Level, LAWMA, Amerada Pass - Winds

NOAA/NOS/CO-OPS 8761305 Shell Beach, LA



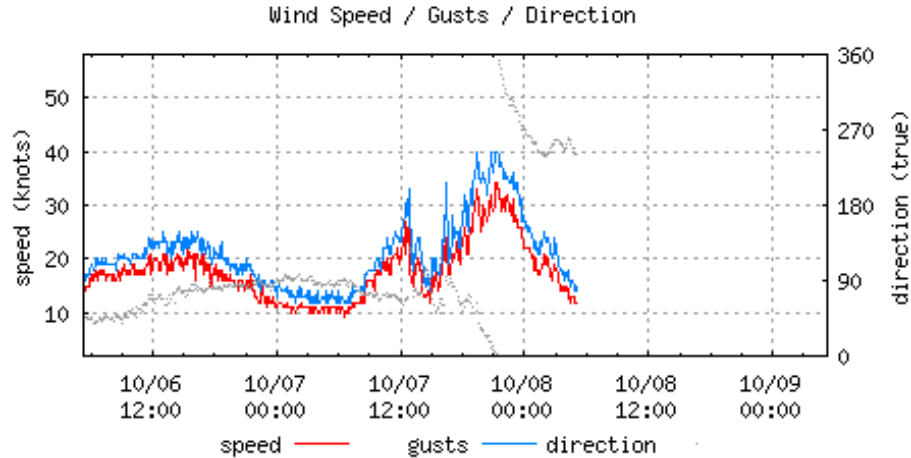
Last Observed Sample: 10/08/2017 05:06 (CDT). Data relative to MHHW

Observed: 3.02 ft. Predicted: 0.39 ft. Residual: 2.63 ft.

Historical Maximum Water Level: Aug 29 2012, 9.45 ft.

Next High Tide: 10/09/2017 04:55 (CDT), 0.53 ft.

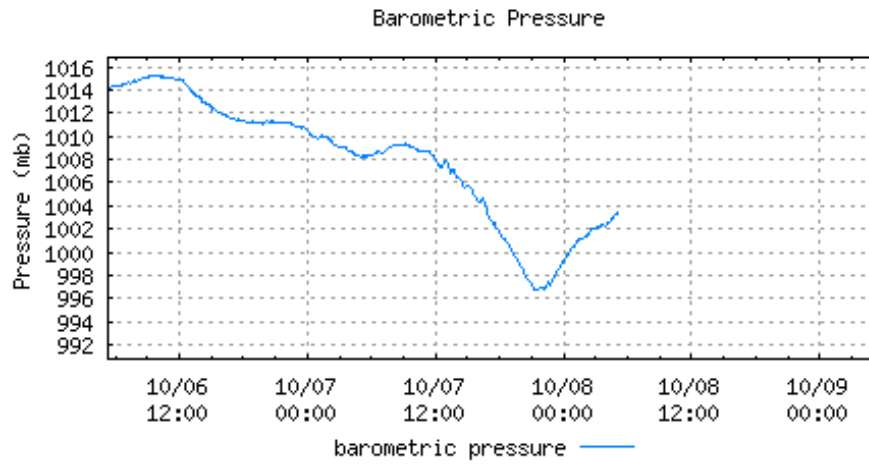
NOAA/NOS/CO-OPS 8761305 Shell Beach, LA



Last Observed Sample: 10/08/2017 05:06 (CDT)

Wind Speed: 12 knots Gusts: 14 knots Direction: 240° T

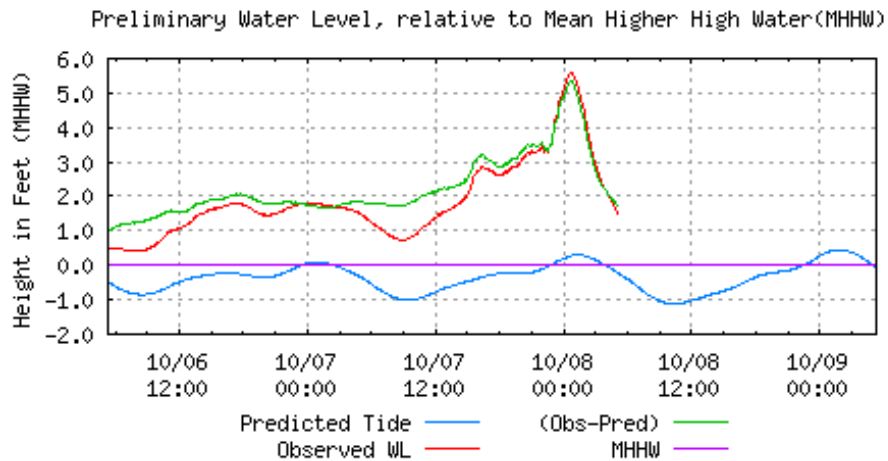
NOAA/NOS/CO-OPS 8761305 Shell Beach, LA



Last Observed Sample: 10/08/2017 05:06 (CDT)

Barometric Pressure: 1003.5 mb

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS



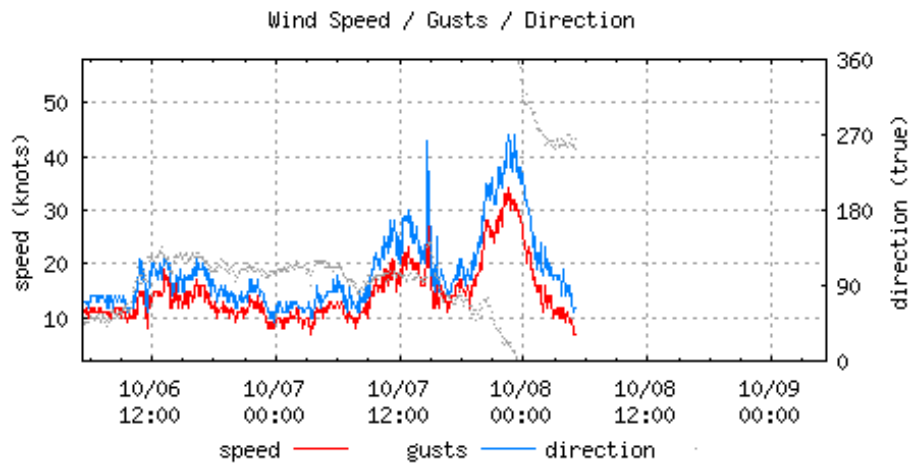
Last Observed Sample: 10/08/2017 05:12 (CDT). Data relative to MHHW

Observed: 1.45 ft. Predicted: -0.24 ft. Residual: 1.69 ft.

Historical Maximum Water Level: Sep 1 2008, 9.10 ft.

Next High Tide: 10/09/2017 01:52 (CDT), 0.45 ft.

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS

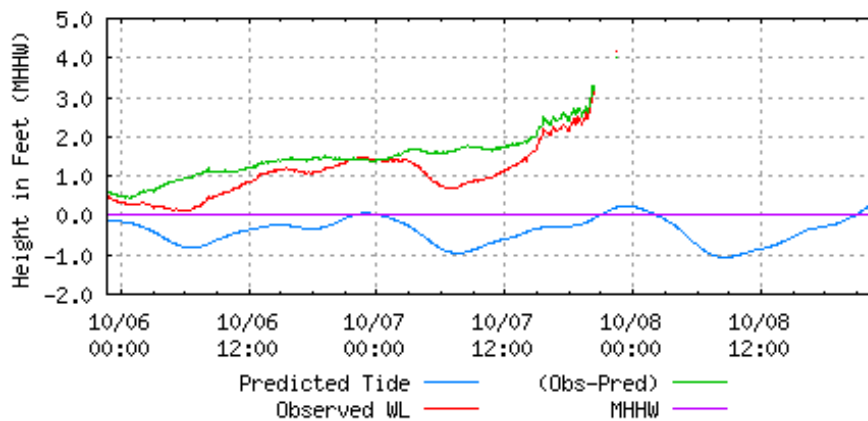


Last Observed Sample: 10/08/2017 05:12 (CDT)

Wind Speed: 7 knots Gusts: 13 knots Direction: 258° T

NOAA/NOS/CO-OPS 8741533 Pascagoula NOAA Lab, MS

Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Last Observed Sample: 10/08/2017 05:12 (CDT). Data relative to MHHW

Observed: 1.48 ft. Predicted: -0.56 ft. Residual: 2.04 ft.

Historical Maximum Water Level: Sep 1 2008, 4.90 ft.

Next High Tide: 10/08/2017 23:56 (CDT), 0.38 ft.

NOAA/NOS/CO-OPS 8741041 Dock E, Port of Pascagoula, MS

Last Observed Sample: 10/08/2017 05:30 (CDT). Data relative to MHHW

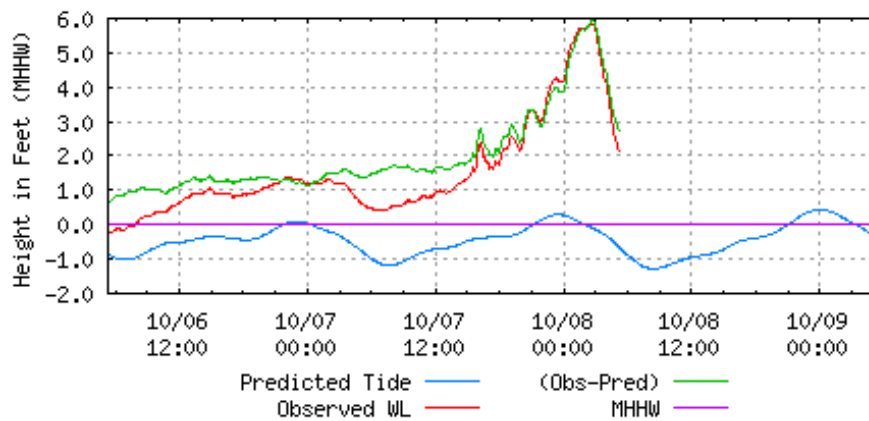
Observed: 1.44 ft. Predicted: -0.65 ft. Residual: 2.09 ft.

Historical Maximum Water Level: Sep 1 2008, 4.76 ft.

Next High Tide: 10/08/2017 23:33 (CDT), 0.42 ft.

NOAA/NOS/CO-OPS 8739803 Bayou La Batre Bridge, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 05:18 (CDT). Data relative to MHHW

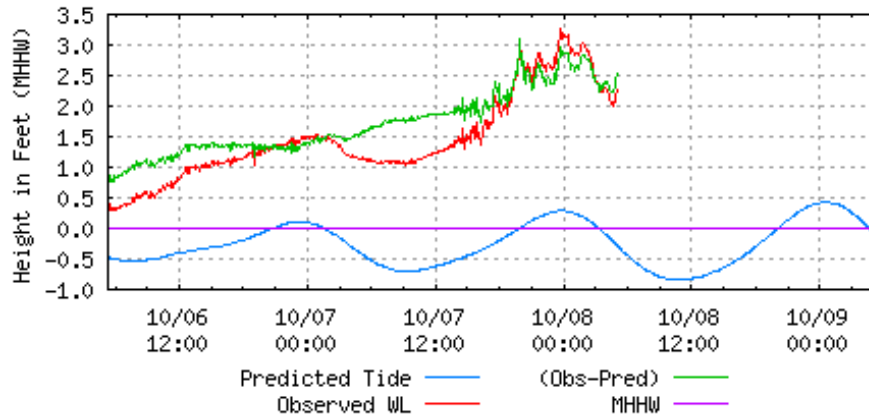
Observed: 2.07 ft. Predicted: -0.67 ft. Residual: 2.74 ft.

Historical Maximum Water Level: n/a

Next High Tide: 10/09/2017 00:06 (CDT), 0.44 ft.

NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 05:12 (CDT). Data relative to MHHW

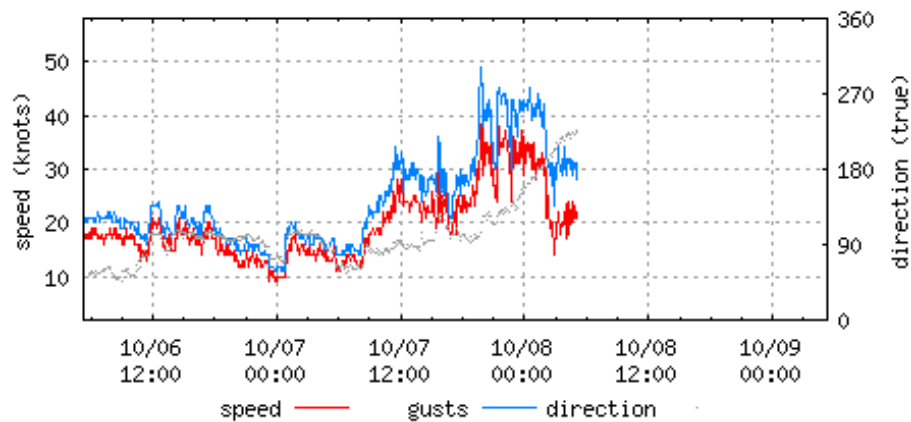
Observed: 2.25 ft. Predicted: -0.31 ft. Residual: 2.56 ft.

Historical Maximum Water Level: Sep 16 2004, 5.94 ft.

Next High Tide: 10/09/2017 00:33 (CDT), 0.43 ft.

NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

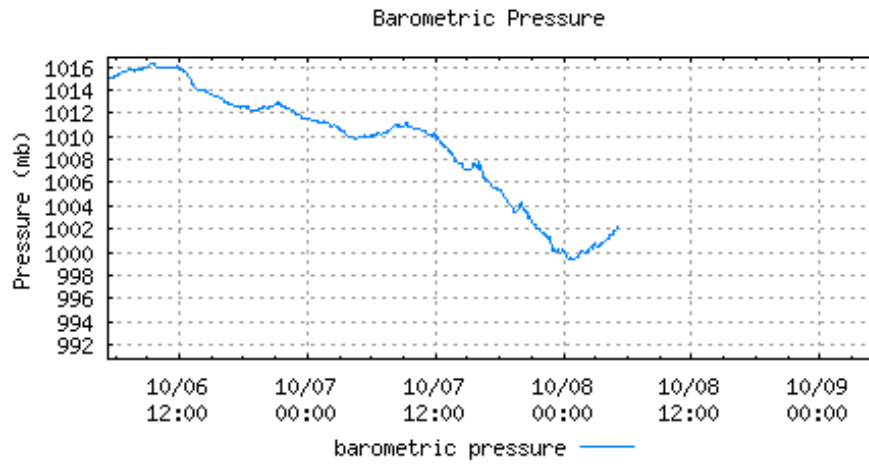
Wind Speed / Gusts / Direction



Last Observed Sample: 10/08/2017 05:12 (CDT)

Wind Speed: 22 knots Gusts: 30 knots Direction: 224° T

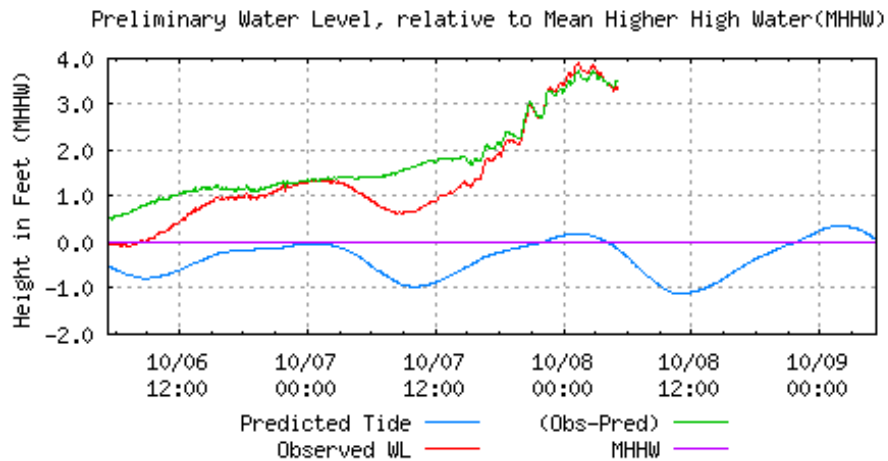
NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL



Last Observed Sample: 10/08/2017 05:12 (CDT)

Barometric Pressure: 1002.2 mb

NOAA/NOS/CO-OPS 8735523 East Fowl River Bridge, AL



Last Observed Sample: 10/08/2017 05:12 (CDT). Data relative to MHHW

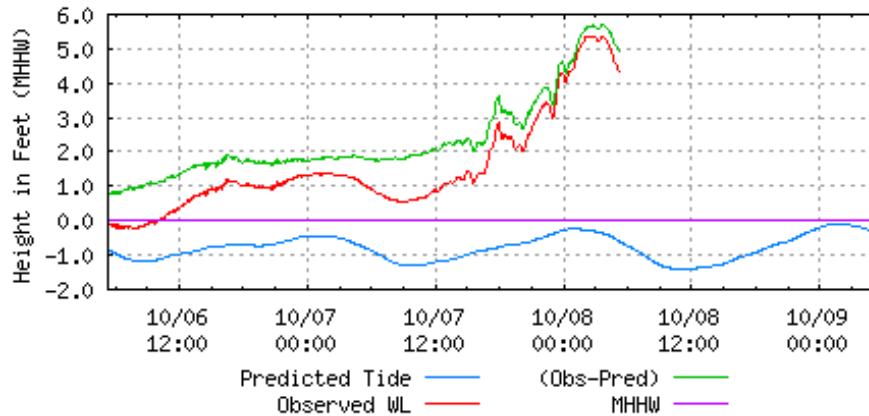
Observed: 3.30 ft. Predicted: -0.16 ft. Residual: 3.46 ft.

Historical Maximum Water Level: Aug 29 2012, 3.75 ft.

Next High Tide: 10/09/2017 01:56 (CDT), 0.35 ft.

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 05:18 (CDT). Data relative to MHHW

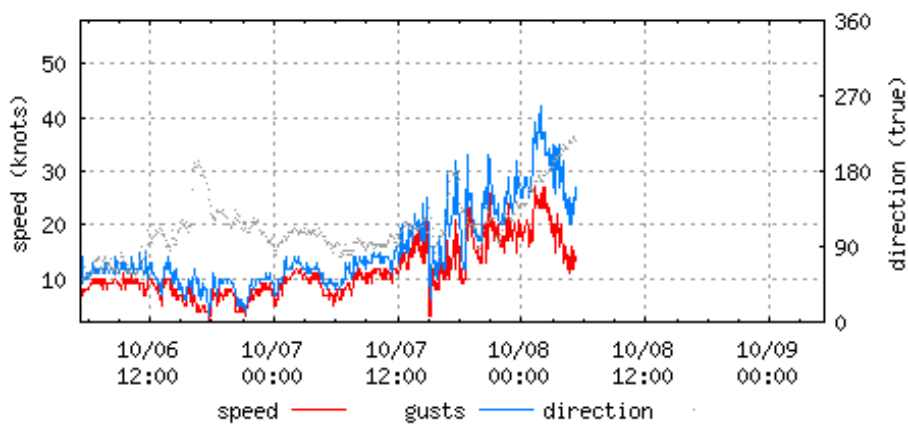
Observed: 4.26 ft. Predicted: -0.61 ft. Residual: 4.87 ft.

Historical Maximum Water Level: Sep 1 2008, 3.80 ft.

Next High Tide: 10/09/2017 01:43 (CDT), -0.08 ft.

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL

Wind Speed / Gusts / Direction

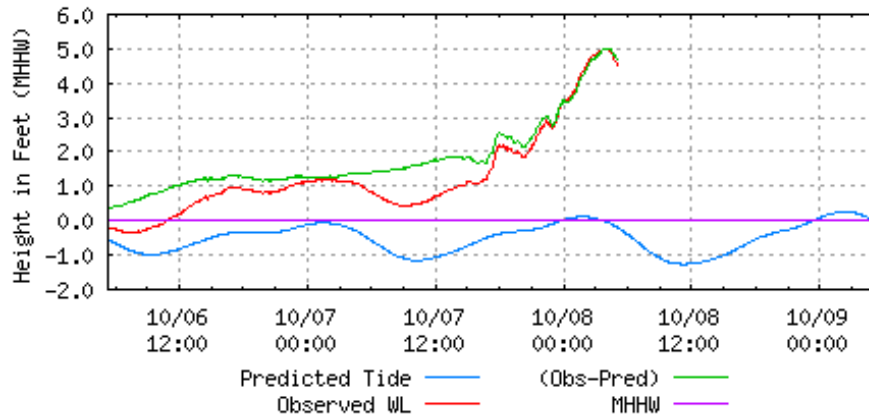


Last Observed Sample: 10/08/2017 05:18 (CDT)

Wind Speed: 14 knots Gusts: 23 knots Direction: 225° T

NOAA/NOS/CO-OPS 8737048 Mobile State Docks, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 05:12 (CDT). Data relative to MHHW

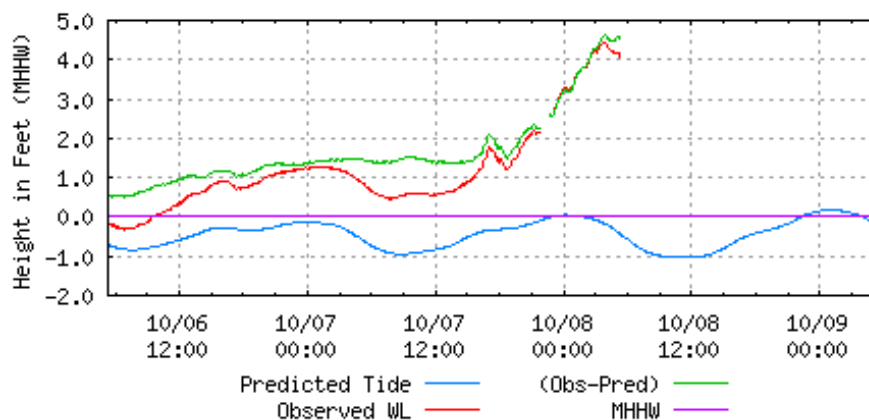
Observed: 4.42 ft. Predicted: -0.23 ft. Residual: 4.65 ft.

Historical Maximum Water Level: Aug 29 2012, 3.67 ft.

Next High Tide: 10/09/2017 02:20 (CDT), 0.26 ft.

NOAA/NOS/CO-OPS 8732828 Weeks Bay, Mobile Bay, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 05:24 (CDT). Data relative to MHHW

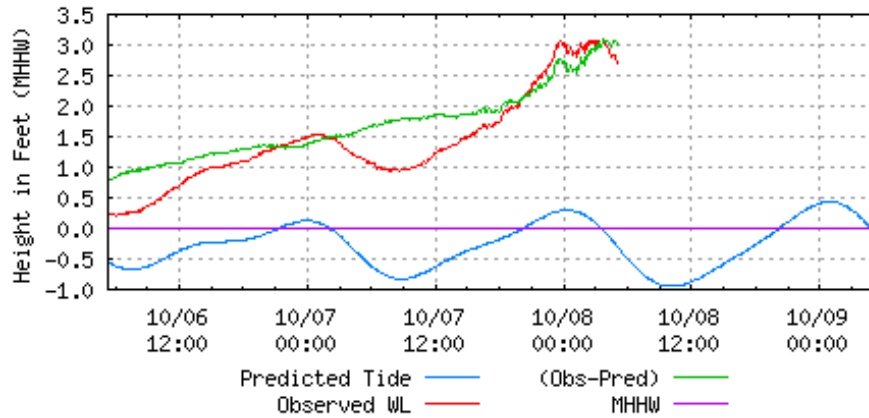
Observed: 4.04 ft. Predicted: -0.45 ft. Residual: 4.49 ft.

Historical Maximum Water Level: Aug 29 2012, 2.85 ft.

Next High Tide: 10/09/2017 00:59 (CDT), 0.17 ft.

NOAA/NOS/CO-OPS 8729840 Pensacola, FL

Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Last Observed Sample: 10/08/2017 05:12 (CDT). Data relative to MHHW

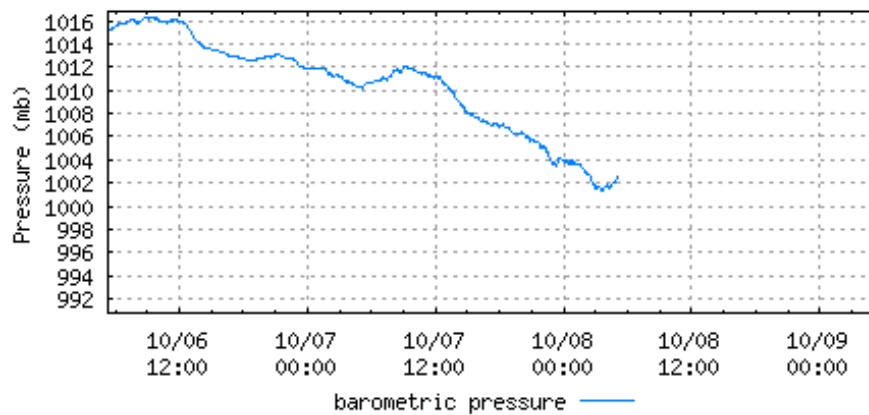
Observed: 2.76 ft. Predicted: -0.33 ft. Residual: 3.09 ft.

Historical Maximum Water Level: Sep 18 1926, 7.41 ft.

Next High Tide: 10/09/2017 00:57 (CDT), 0.44 ft.

NOAA/NOS/CO-OPS 8729840 Pensacola, FL

Barometric Pressure

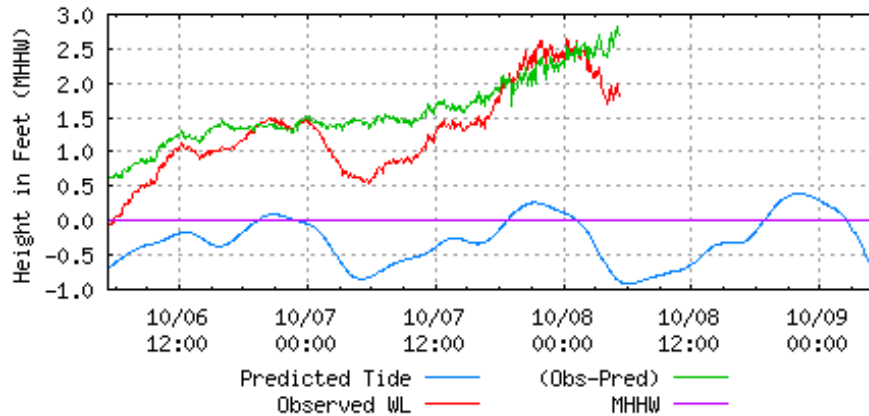


Last Observed Sample: 10/08/2017 05:12 (CDT)

Barometric Pressure: 1002.5 mb

NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 05:18 (CDT). Data relative to MHHW

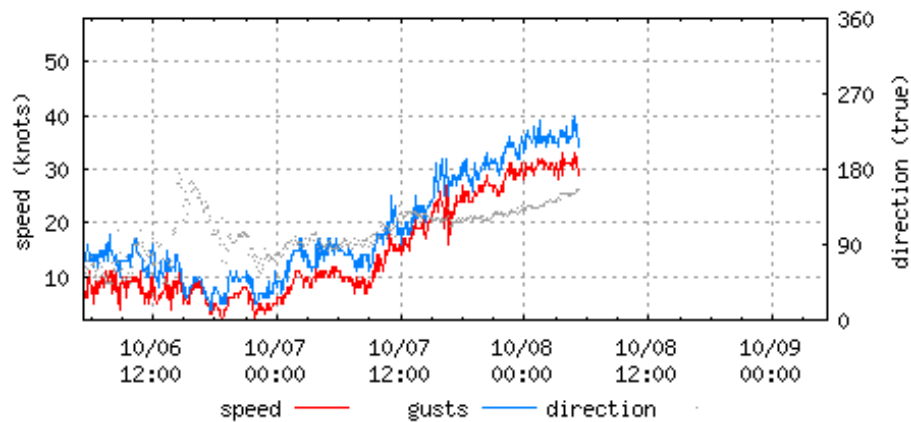
Observed: 1.75 ft. Predicted: -0.88 ft. Residual: 2.63 ft.

Historical Maximum Water Level: Oct 4 1995, 6.84 ft.

Next High Tide: 10/08/2017 22:00 (CDT), 0.40 ft.

NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL

Wind Speed / Gusts / Direction

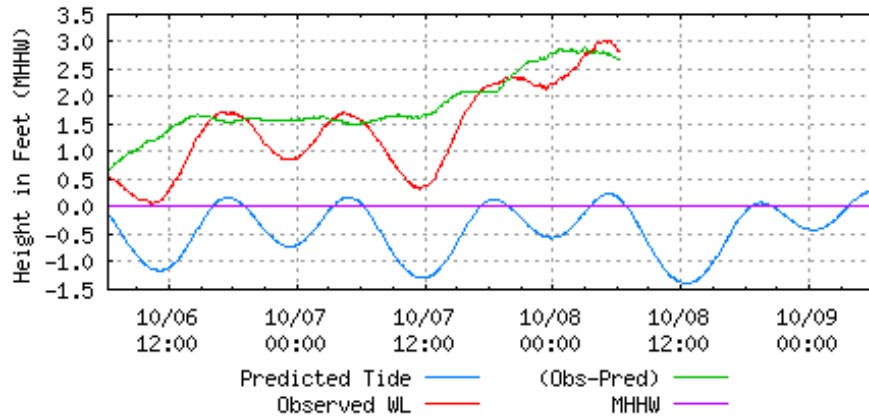


Last Observed Sample: 10/08/2017 05:18 (CDT)

Wind Speed: 31 knots Gusts: 34 knots Direction: 142° T

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Last Observed Sample: 10/08/2017 06:18 (EDT). Data relative to MHHW

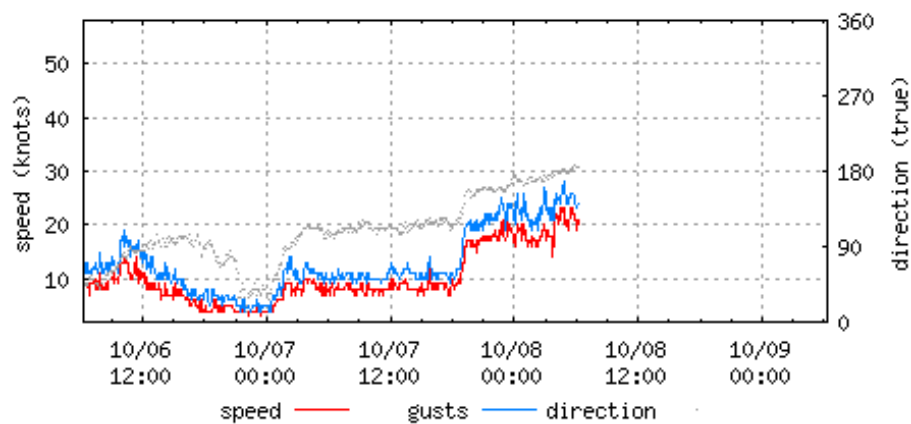
Observed: 2.80 ft. Predicted: 0.15 ft. Residual: 2.65 ft.

Historical Maximum Water Level: Jul 10 2005, 6.43 ft.

Next High Tide: 10/08/2017 19:32 (EDT), 0.07 ft.

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Wind Speed / Gusts / Direction

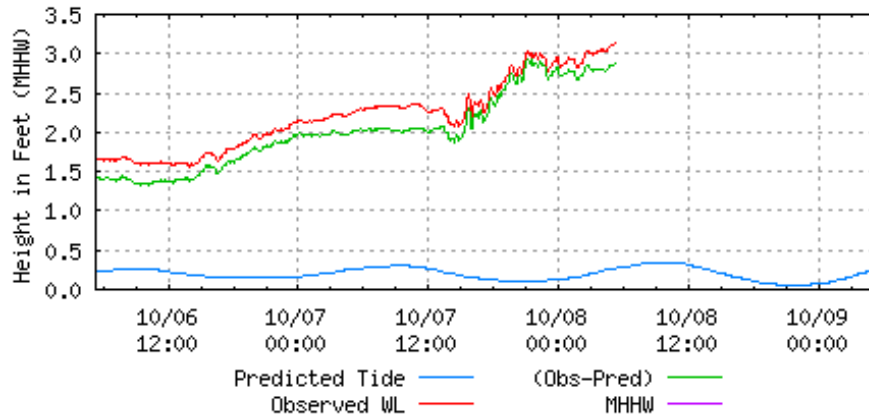


Last Observed Sample: 10/08/2017 06:18 (EDT)

Wind Speed: 20 knots Gusts: 25 knots Direction: 186° T

NOAA/NOS/CO-OPS 8761927 New Canal Station, LA

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 05:12 (CDT). Data relative to MHHW

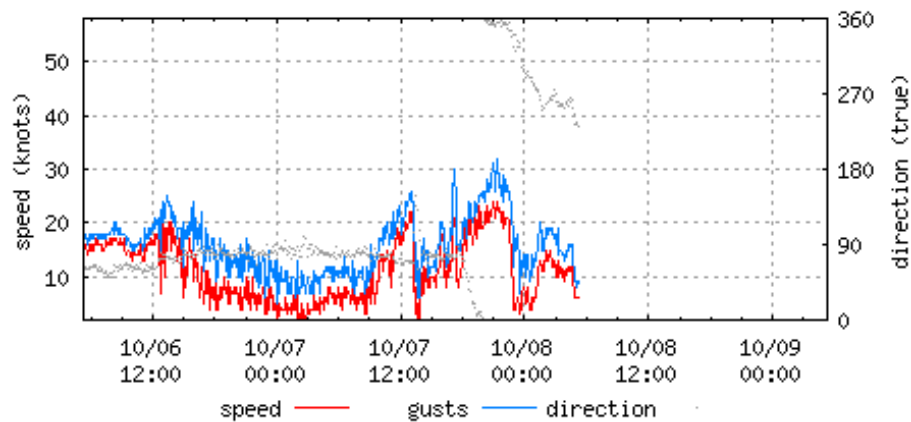
Observed: 3.14 ft. Predicted: 0.27 ft. Residual: 2.87 ft.

Historical Maximum Water Level: Aug 30 2012, 6.03 ft.

Next High Tide: 10/08/2017 09:50 (CDT), 0.35 ft.

NOAA/NOS/CO-OPS 8761927 New Canal Station, LA

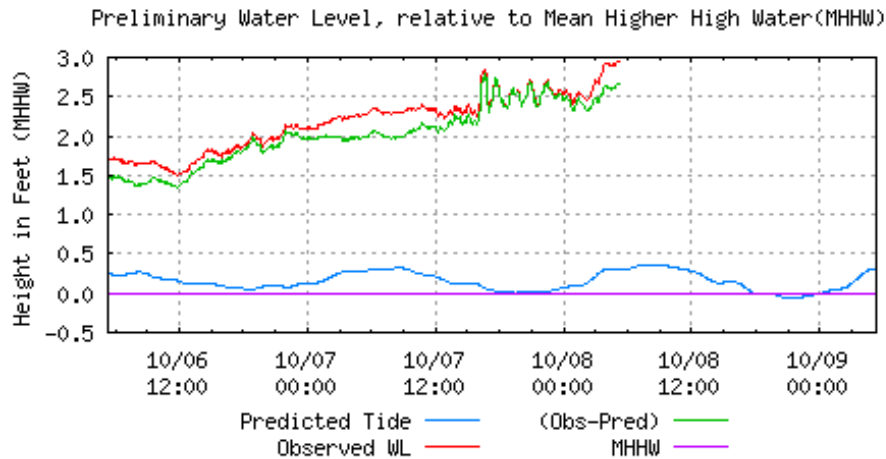
Wind Speed / Gusts / Direction



Last Observed Sample: 10/08/2017 05:12 (CDT)

Wind Speed: 6 knots Gusts: 9 knots Direction: 232° T

NOAA/NOS/CO-OPS 8762483 I-10 Bonnet Carre Floodway, LA



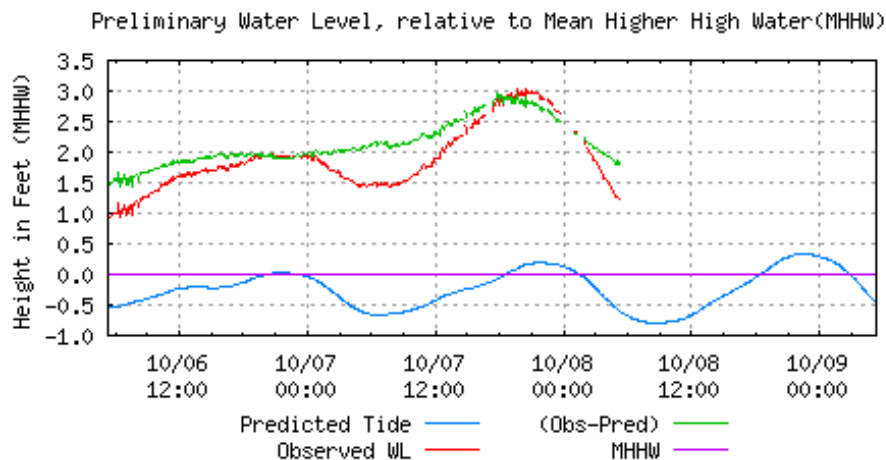
Last Observed Sample: 10/08/2017 05:12 (CDT). Data relative to MHHW

Observed: 2.95 ft. Predicted: 0.29 ft. Residual: 2.66 ft.

Historical Maximum Water Level: n/a

Next High Tide: 10/08/2017 07:55 (CDT), 0.36 ft.

NOAA/NOS/CO-OPS 8760922 Pilots Station East, SW Pass, LA



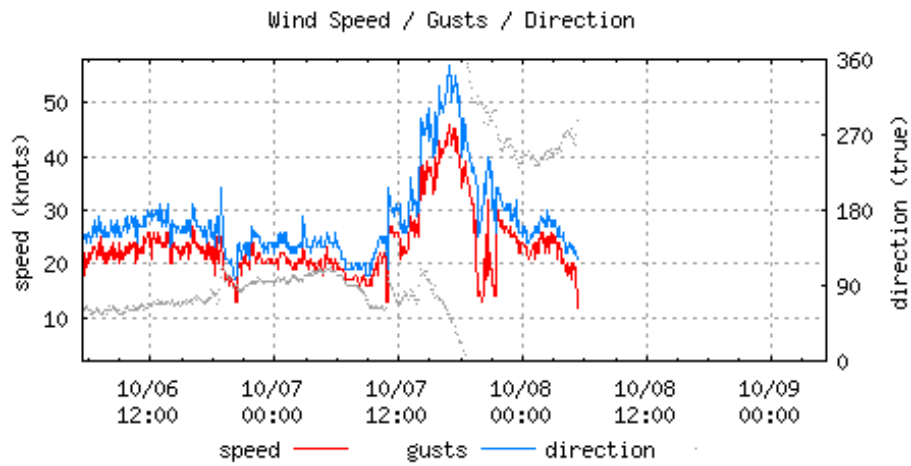
Last Observed Sample: 10/08/2017 05:18 (CDT). Data relative to MHHW

Observed: 1.22 ft. Predicted: -0.59 ft. Residual: 1.81 ft.

Historical Maximum Water Level: Aug 29 2005, 5.98 ft.

Next High Tide: 10/08/2017 22:23 (CDT), 0.33 ft.

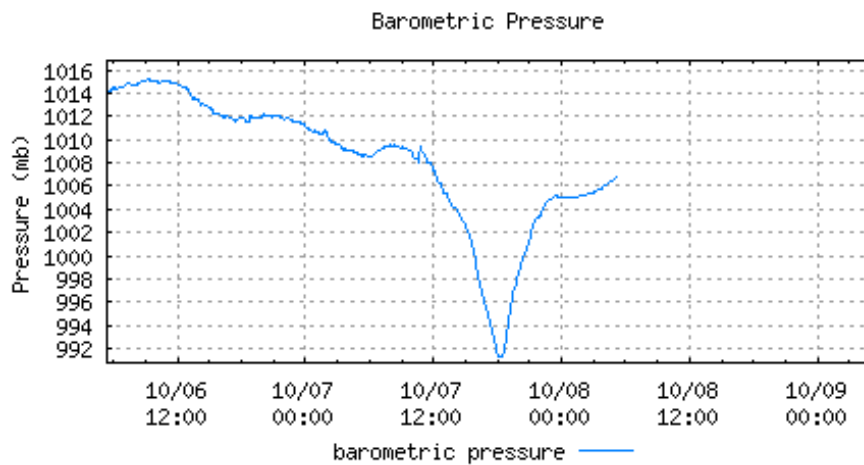
NOAA/NOS/CO-OPS 8760922 Pilots Station East, SW Pass, LA



Last Observed Sample: 10/08/2017 05:18 (CDT)

Wind Speed: 12 knots Gusts: 21 knots Direction: 288° T

NOAA/NOS/CO-OPS 8760922 Pilots Station East, SW Pass, LA

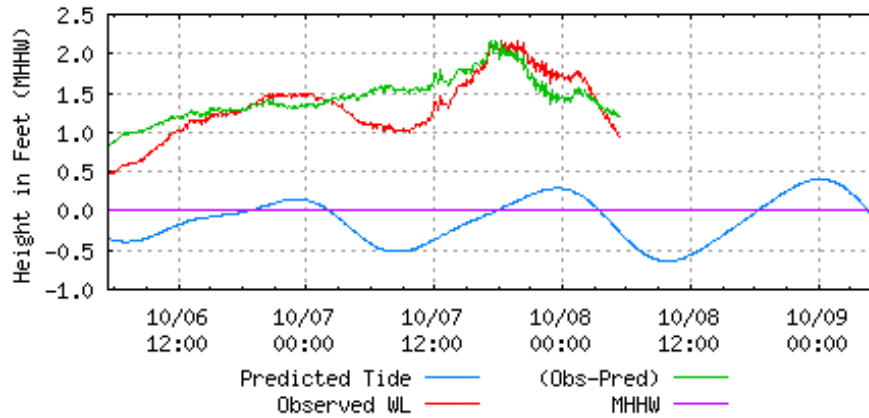


Last Observed Sample: 10/08/2017 05:18 (CDT)

Barometric Pressure: 1006.8 mb

NOAA/NOS/CO-OPS 8761724 Grand Isle, LA

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 05:18 (CDT). Data relative to MHHW

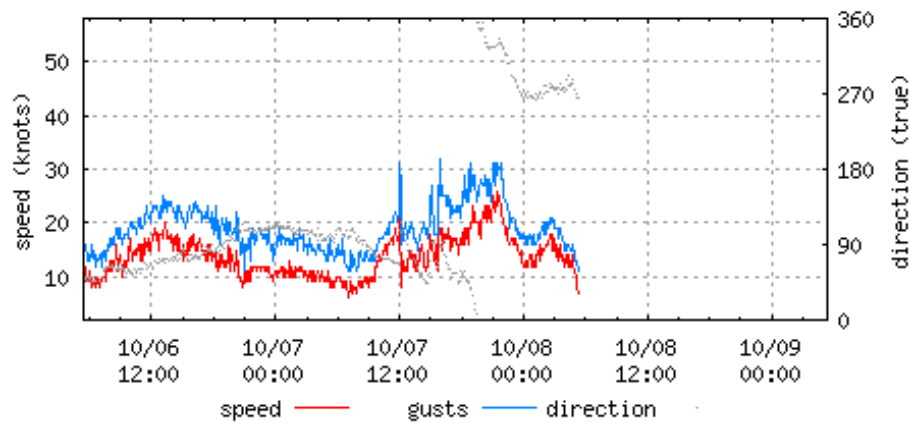
Observed: 0.94 ft. Predicted: -0.26 ft. Residual: 1.20 ft.

Historical Maximum Water Level: Aug 29 2012, 4.45 ft.

Next High Tide: 10/09/2017 00:09 (CDT), 0.40 ft.

NOAA/NOS/CO-OPS 8761724 Grand Isle, LA

Wind Speed / Gusts / Direction

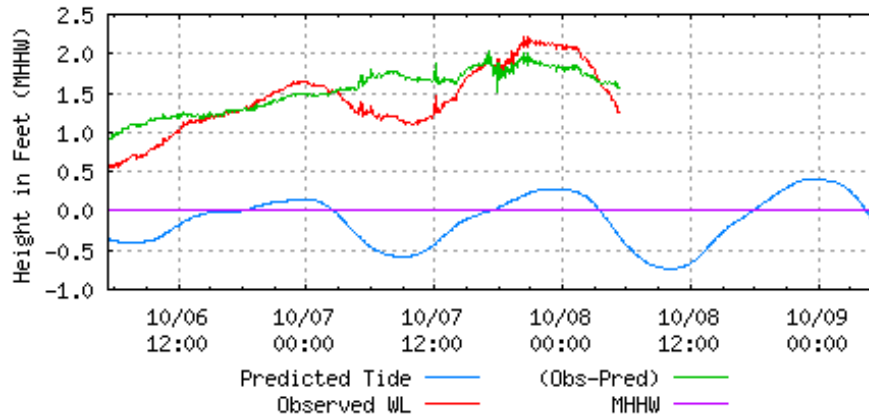


Last Observed Sample: 10/08/2017 05:18 (CDT)

Wind Speed: 7 knots Gusts: 11 knots Direction: 265° T

NOAA/NOS/CO-OPS 8762075 Port Fourchon, Belle Pass, LA

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 05:18 (CDT). Data relative to MHHW

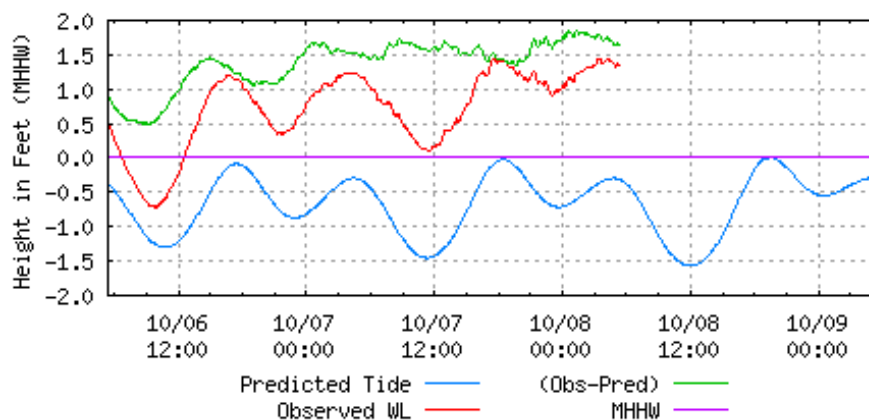
Observed: 1.24 ft. Predicted: -0.32 ft. Residual: 1.56 ft.

Historical Maximum Water Level: Sep 24 2005, 3.70 ft.

Next High Tide: 10/08/2017 23:27 (CDT), 0.41 ft.

NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



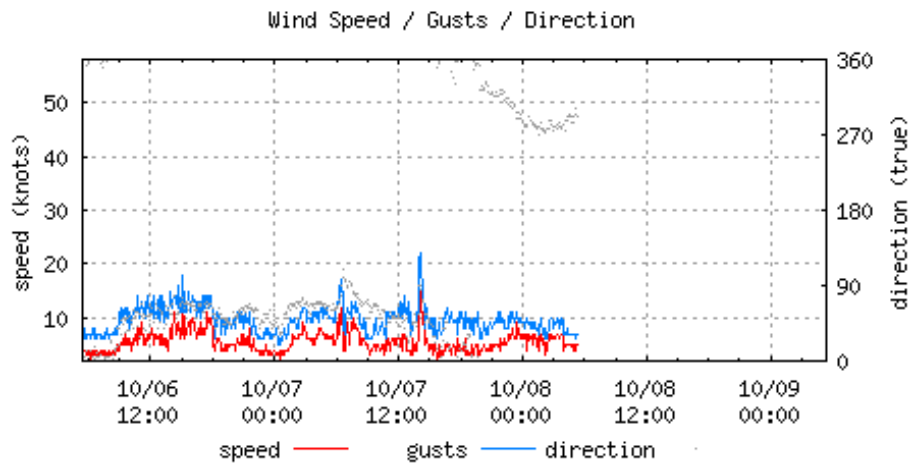
Last Observed Sample: 10/08/2017 05:18 (CDT). Data relative to MHHW

Observed: 1.34 ft. Predicted: -0.31 ft. Residual: 1.65 ft.

Historical Maximum Water Level: Sep 12 2008, 5.94 ft.

Next High Tide: 10/08/2017 19:27 (CDT), 0.00 ft.

NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



Last Observed Sample: 10/08/2017 05:18 (CDT)

Wind Speed: 5 knots Gusts: 7 knots Direction: 291° T

Latest Water Level Observations on MHHW

| Station ID | Station Name | Date/Time | Observed Water Level | Predicted Tide | Residual Water Level | 24 Hour Maximum Storm Tide |
|------------|----------------------------------|------------------------|----------------------------|-------------------|----------------------------|-------------------------------------|
| 8761305 | Shell Beach, LA | 10/08/2017 05:06 (CDT) | 3.02 ft | 0.39 ft | 2.63 ft | 5.08 ft |
| 8747437 | Bay Waveland Yacht Club, MS | 10/08/2017 05:12 (CDT) | 1.45 ft | -0.24 ft | 1.69 ft | 5.60 ft |
| 8741533 | Pascagoula NOAA Lab, MS | 10/08/2017 05:12 (CDT) | 1.48 ft | -0.56 ft | 2.04 ft | 6.31 ft |
| 8741041 | Dock E, Port of Pascagoula, MS | 10/08/2017 05:30 (CDT) | 1.44 ft | -0.65 ft | 2.09 ft | 6.14 ft |
| 8739803 | Bayou La Batre Bridge, AL | 10/08/2017 05:18 (CDT) | 2.07 ft | -0.67 ft | 2.74 ft | 5.85 ft |
| 8735180 | Dauphin Island, AL | 10/08/2017 05:12 (CDT) | 2.25 ft | -0.31 ft | 2.56 ft | 3.26 ft |
| 8735523 | East Fowl River Bridge, AL | 10/08/2017 05:12 (CDT) | 3.30 ft | -0.16 ft | 3.46 ft | 3.92 ft |
| 8736897 | Coast Guard Sector Mobile, AL | 10/08/2017 05:18 (CDT) | 4.26 ft | -0.61 ft | 4.87 ft | 5.37 ft |
| 8737048 | Mobile State Docks, AL | 10/08/2017 05:12 (CDT) | 4.42 ft | -0.23 ft | 4.65 ft | 5.00 ft |
| 8732828 | Weeks Bay, Mobile Bay, AL | 10/08/2017 05:24 (CDT) | 4.04 ft | -0.45 ft | 4.49 ft | 4.44 ft |
| 8729840 | Pensacola, FL | 10/08/2017 05:12 (CDT) | 2.76 ft | -0.33 ft | 3.09 ft | 3.07 ft |
| 8729210 | Panama City Beach, FL | 10/08/2017 05:18 (CDT) | 1.75 ft | -0.88 ft | 2.63 ft | 2.63 ft |
| 8728690 | Apalachicola, FL | 10/08/2017 06:18 (EDT) | 2.80 ft | 0.15 ft | 2.65 ft | 3.03 ft |
| 8761927 | New Canal Station, LA | 10/08/2017 05:12 (CDT) | 3.14 ft | 0.27 ft | 2.87 ft | 3.14 ft |
| 8762483 | I-10 Bonnet Carre Floodway, LA | 10/08/2017 05:12 (CDT) | 2.95 ft | 0.29 ft | 2.66 ft | 2.95 ft |
| 8760922 | Pilots Station East, SW Pass, LA | 10/08/2017 05:18 (CDT) | 1.22 ft | -0.59 ft | 1.81 ft | 3.04 ft |
| 8761724 | Grand Isle, LA | 10/08/2017 05:18 (CDT) | 0.94 ft | -0.26 ft | 1.20 ft | 2.16 ft |
| 8762075 | Port Fourchon, Belle Pass, LA | 10/08/2017 05:18 (CDT) | 1.24 ft | -0.32 ft | 1.56 ft | 2.21 ft |
| 8764227 | LAWMA, Amerada Pass, LA | 10/08/2017 05:18 (CDT) | 1.34 ft | -0.31 ft | 1.65 ft | 1.44 ft |

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce